

Using Google Earth and Google SketchUp to Model in 3D

Roland Duhaime
University of Rhode Island

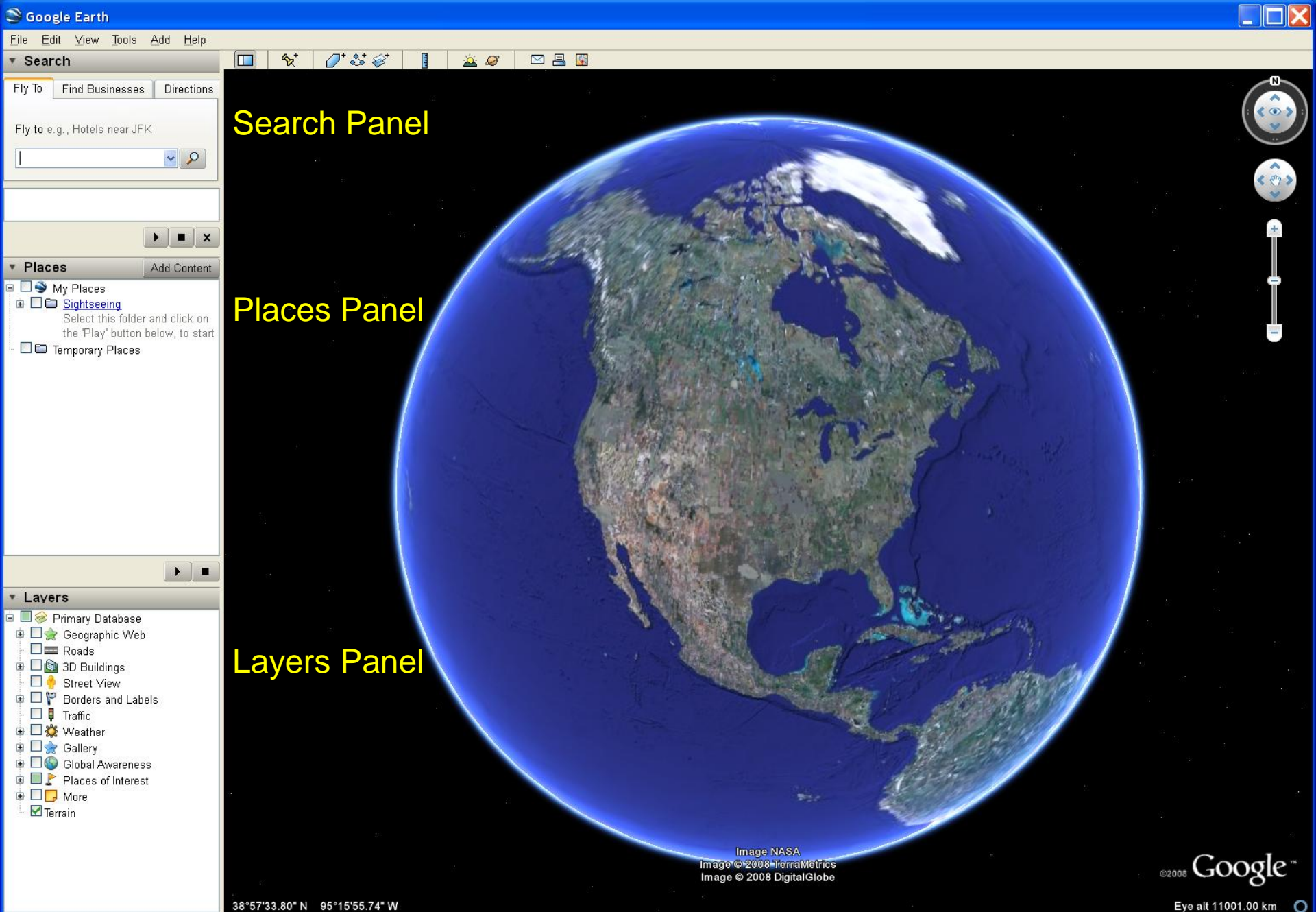




EARTH.GOOGLE.COM

Pricing

- Google Earth – Free for non-commercial use
 - License we are using today
- Google Earth Pro - \$400 / year
 - GE Pro permits the importation of georeferenced imagery in certain formats using GIS data import tool (e.g. geotiff)
 - Movie Making, High Quality Printing, measure areas



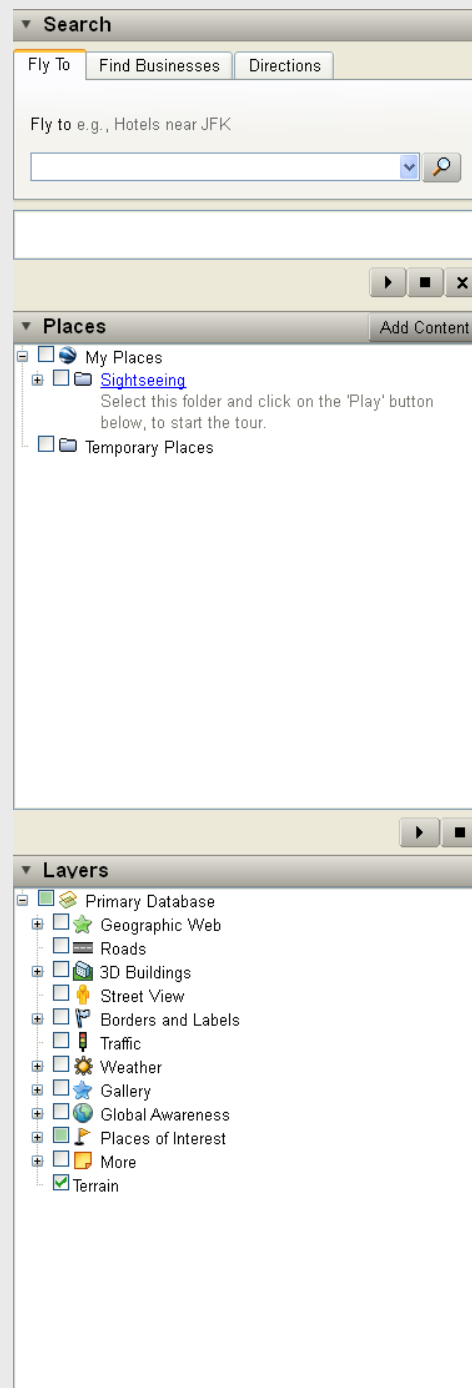
Search Panel

Places Panel

Layers Panel

Google Earth Sidebar

Turned Off Under View Menu



Search – (1) Fly to a location,
(2), Find a business,
(3) Get really cool driving directions.

Places – Your area to add folders
and files. Also, temporary files are
temporarily stored here
Unless moved to “My Places”.

Layers – Turn on and off Google
data.

Places

Add Content

- ☐ North Woods Site Plan
 - ☐ North Woods Master ...
 - ☐ North Woods Master ...
 - ☐ Albert_Invasives_2
 - ☒ Location Today
The location of NRS 600 for Spring Semester 2010.
 - ☐ Inside_Auditorium
 - ☒ Tour Of Google Earth Present
This tour will begin overviewing New England. It
 - ☒ Underwater
 - ☒ coastal_institute_kingston_v1
Created with Google SketchUp
 - ☐ not_birds_of_conservation_c
 - ☐ Common_Bird_Species_2001
 - ☒ MAVA_GIS_Database_Core_1
This is a test implementation of an NPS Enterprise
 - ☒ MAVA_Lindenwald_House_2
Created with Google SketchUp 6.4.112
 - ☐ MAVA_GIS_Database_He...
 - ☐ Martin Van Buren Map H...
 - ☒ Not_birds_of_conservation_con
 - ☒ Our Location Today
Hilton, Fort Collins, CO
- ☒ Temporary Places

Layers

- ☒ Primary Database
- ☒ Borders and Labels
- ☒ Places of Interest
- ☐ Panoramio
- ☒ Roads
- ☒ 3D Buildings
- ☒ Ocean
- ☐ Street View
- ☐ Weather
- ☐ Gallery
- ☐ Global Awareness
- ☐ More
- ☐ Terrain



Image © 2010 DigitalGlobe

© 2010 Google

Google

Search

Places

Add Content

- ☐ North Woods Site Plan
- ☐ North Woods Master ...
- ☐ North woods Master ...
- ☒ Albert_Invasives_2
- ☒ **Location Today**
The location of NRS 600 for Spring Semester 2010.
- ☐ Inside_Auditorium
- ☒ **Tour Of Google Earth Present**
This tour will begin overlooking New England. It
- ☒ Underwater
- ☒ coastal_institute_kingston_v/ Created with [Google SketchUp](#)
- ☒ not_birds_of_conservation_c
- ☐ Common_Bird_Species_2001
- ☒ **MAVA GIS Database Core**
This is a test implementation of an NPS Enterprise
- ☒ **MAVA Lindenwald House_2**
Created with [Google SketchUp 6.4.112](#)
- ☐ MAVA_GIS_Database_He...
- ☐ Martin Van Buren Map H...
- ☒ Not_birds_of_conservation.con
- ☒ **Our Location Today**
Hilton, Fort Collins, CO
- ☒ Temporary Places

Layers

- ☒ Primary Database
- ☒ Borders and Labels
- ☒ Places of Interest
- ☐ Panoramio
- ☒ Roads
- ☒ 3D Buildings
- ☒ Ocean
- ☐ Street View
- ☐ Weather
- ☐ Gallery
- ☐ Global Awareness
- ☐ More
- ☐ Terrain

**Our Location Today**

Hilton, Fort Collins, CO
Directions: [To here](#) - [From here](#)

Our Location Today

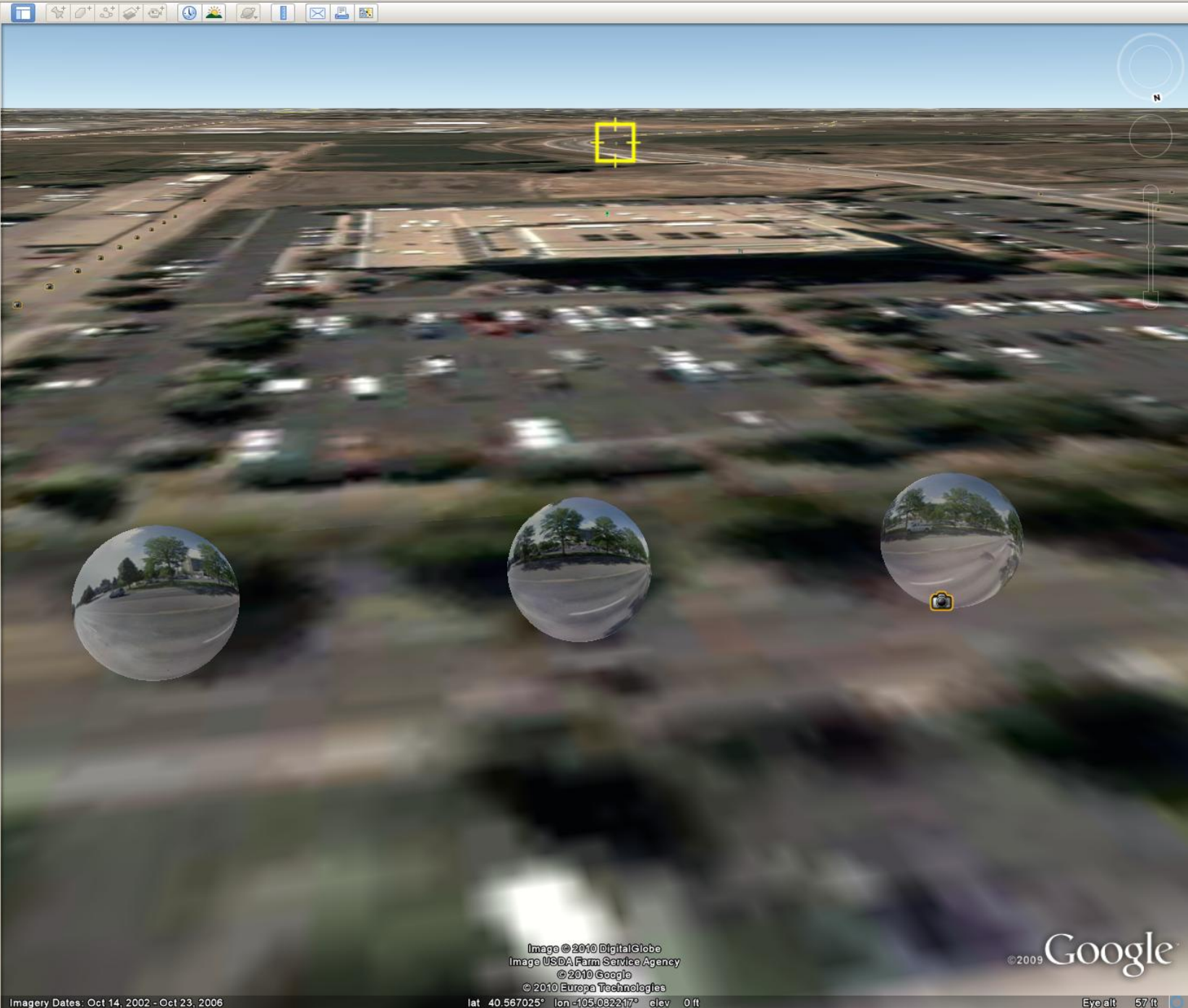
Places

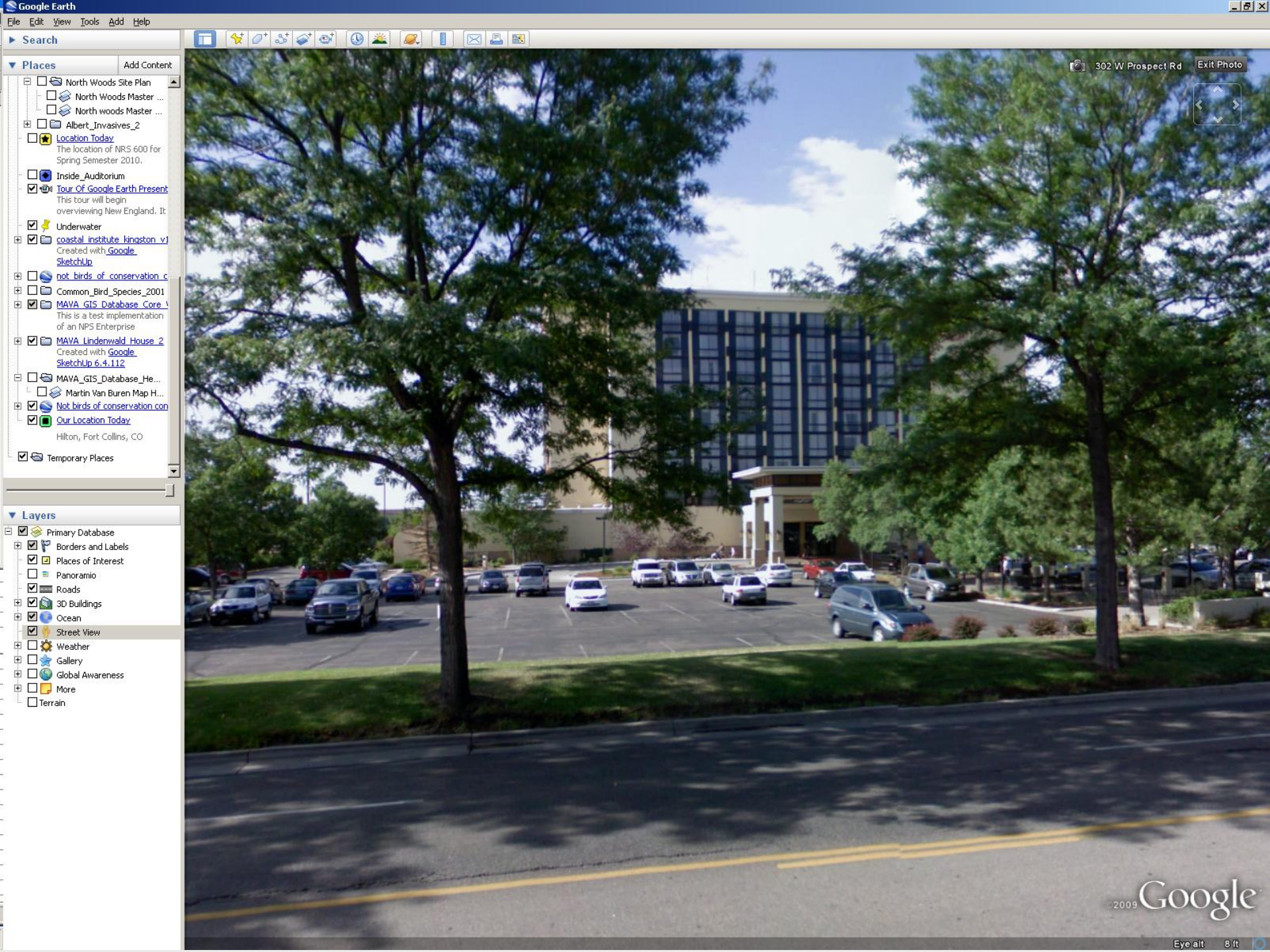
Add Content

- ☐ North Woods Site Plan
- ☐ North Woods Master ...
- ☐ North woods Master ...
- ☐ Albert_Invasives_2
- ☒ **Location Today**
The location of NRS 600 for Spring Semester 2010.
- ☐ Inside_Auditorium
- ☒ **Tour Of Google Earth Present**
This tour will begin overviewing New England. It
- ☒ Underwater
- ☒ **coastal_institute_kingston_v**
Created with [Google SketchUp](#)
- ☐ **not_birds_of_conservation_c**
- ☐ Common_Bird_Species_2001
- ☒ **MAVA_GIS_Database_Core_1**
This is a test implementation of an NPS Enterprise
- ☒ **MAVA_Lindenwald_House_2**
Created with [Google SketchUp 6.4.112](#)
- ☐ MAVA_GIS_Database_He...
- ☐ Martin Van Buren Map H...
- ☒ **Not_birds_of_conservation_con**
- ☒ **Our Location Today**
Hilton, Fort Collins, CO
- ☒ Temporary Places

Layers

- ☒ Primary Database
- ☒ Borders and Labels
- ☒ Places of Interest
- ☐ Panorama
- ☒ Roads
- ☒ 3D Buildings
- ☒ Ocean
- ☒ Street View
- ☐ Weather
- ☐ Gallery
- ☐ Global Awareness
- ☐ More
- ☐ Terrain







Search

Fly To Find Businesses Directions

Fly to e.g., Reservoir Rd. Clayville, NY

hilton fort collins, co

- hilton fort collins, co (1 - 10)
- hilton fort collins, co (1 - 10)

Places Add Content

- ☒ [KHA Sandpit](#)
In this area we play soccer.
- ☒ [KHA Blacktop](#)
There are basketball hoops here.
- ☒ [KHA Parking Area](#)
This is the parking area.
- ☒ KHA Blacktop Area
- ☒ KHA Playground Area
- ☐ Untitled Image Overlay
- ☒ Temporary Places
- ☒ [Global Cloud Layer](#)
by [barnabu](#)
- ☒ Altitude
 - ☐ Off
 - ☐ 6350Km
 - ☐ 200Km
 - ☒ 100Km
 - ☐ 15Km
 - ☐ 4Km
 - ☐ 0km
- ☒ Drop Shadows
 - ☐ On
 - ☒ Off
- ☒ Credits
 - [xplanet](#)
 - [ChrisMDP](#)
 - Image source: [University of](#)

Layers

- ☒ Primary Database
- ☒ Borders and Labels
- ☒ Places of Interest
- ☐ Panorama



©2010 Google
Image USDA Farm Service Agency

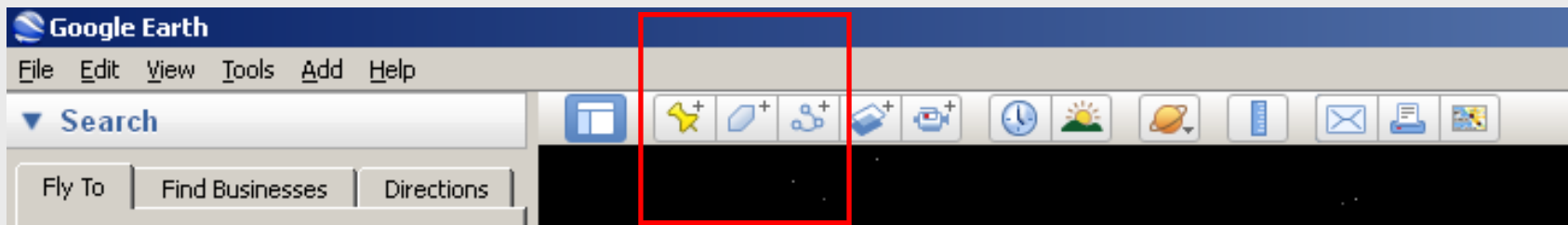
©2009 Google™

Image © 2010 DigitalGlobe
40°34'00.57" N 105°04'56.78" W elev 1524 m

Imagery Date: Oct 14, 2002

Eye alt 1.55 km

Create Points, Polygons, Lines



```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<kml>
```

```
<Document>
```

```
  <name>Location_Today.kmz</name>
```

```
  <Style id="sh_ylw-stars">
```

```
    <IconStyle>
```

```
      <scale>1.3</scale>
```

```
      <Icon>
```

```
        <href>http://maps.google.com/mapfiles/kml/paddle/ylw-stars.png</href>
```

```
      </Icon>
```

```
      <hotSpot x="32" y="1" xunits="pixels" yunits="pixels"/>
```

```
    </IconStyle>
```

```
  <StyleMap id="msn_ylw-stars">
```

```
    <Pair>
```

```
      <key>normal</key>
```

```
      <styleUrl>#sn_ylw-stars</styleUrl>
```

```
    </Pair>
```

```
    <Pair>
```

```
      <key>highlight</key>
```

```
      <styleUrl>#sh_ylw-stars</styleUrl>
```

```
    </Pair>
```

```
</StyleMap>
```

```
<Placemark>
```

```
  <name>Location Today</name>
```

```
  <description>The location of NRS 600 for Spring Semester 2010.</description>
```

```
  <LookAt>
```

```
    <longitude>-71.52626418702435</longitude>
```

```
    <latitude>41.4897165345682</latitude>
```

```
    <altitude>0</altitude>
```

```
    <range>161.3081790783156</range>
```

```
    <tilt>54.91229925065143</tilt>
```

```
    <heading>1.329053966405921</heading>
```

```
    <altitudeMode>relativeToGround</altitudeMode>
```

```
    <gx:altitudeMode>relativeToSeaFloor</gx:altitudeMode>
```

```
  </LookAt>
```

```
  <styleUrl>#msn_ylw-stars</styleUrl>
```

```
  <Point>
```

```
    <coordinates>-71.52650914324107,41.49007053534766,0</coordinates>
```

```
  </Point>
```

```
</Placemark>
```

```
</Document>
```

```
</kml>
```

2006

Webcam: Hartford, CT Hazecam



Image © 2006 MDA EarthSat
© 2006 Sanborn

© 2005 Google

2008

Rhode Island

32.13° N 71°16'52.74" W

Image NASA
Image © 2008 DigitalGlobe
Image MassGIS, Commonwealth of Massachusetts EOE
Image © 2008 TerraMetrics
elev 0 m

2010

Image MassGIS, Commonwealth of Massachusetts EOE
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2010 DigitalGlobe
Image U.S. Geological Survey

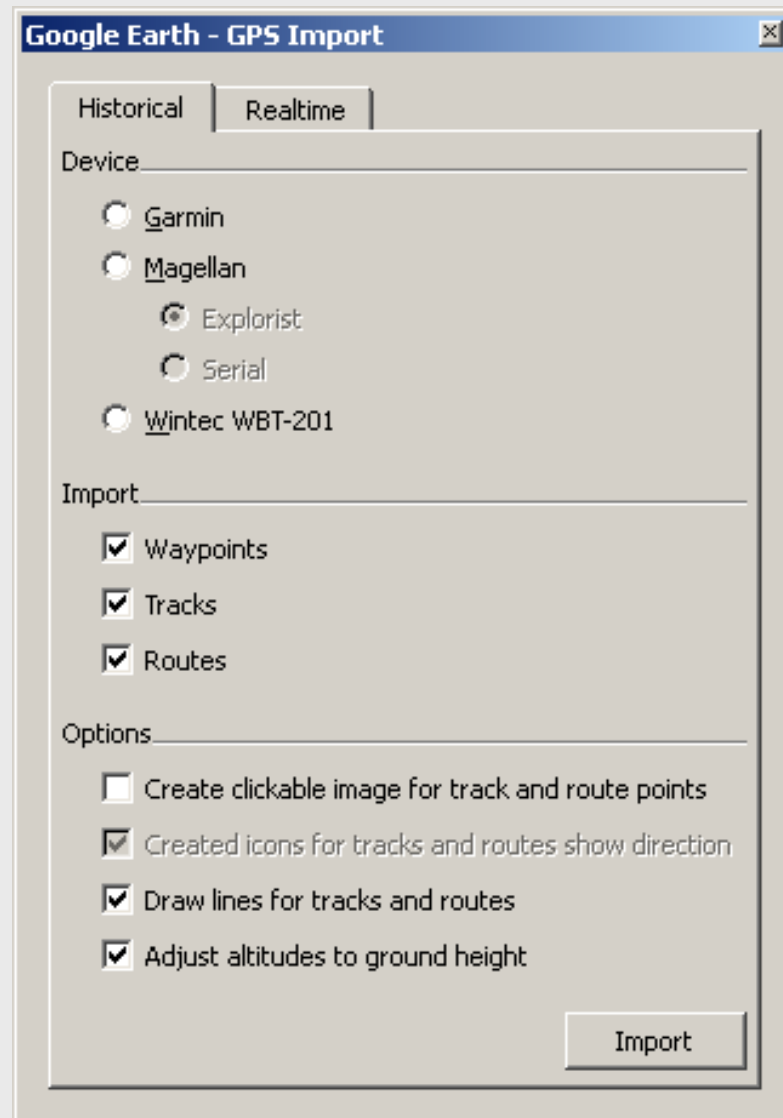
©2009 Google

Imagery Dates: Sep 30, 2006 - Apr 10, 2008

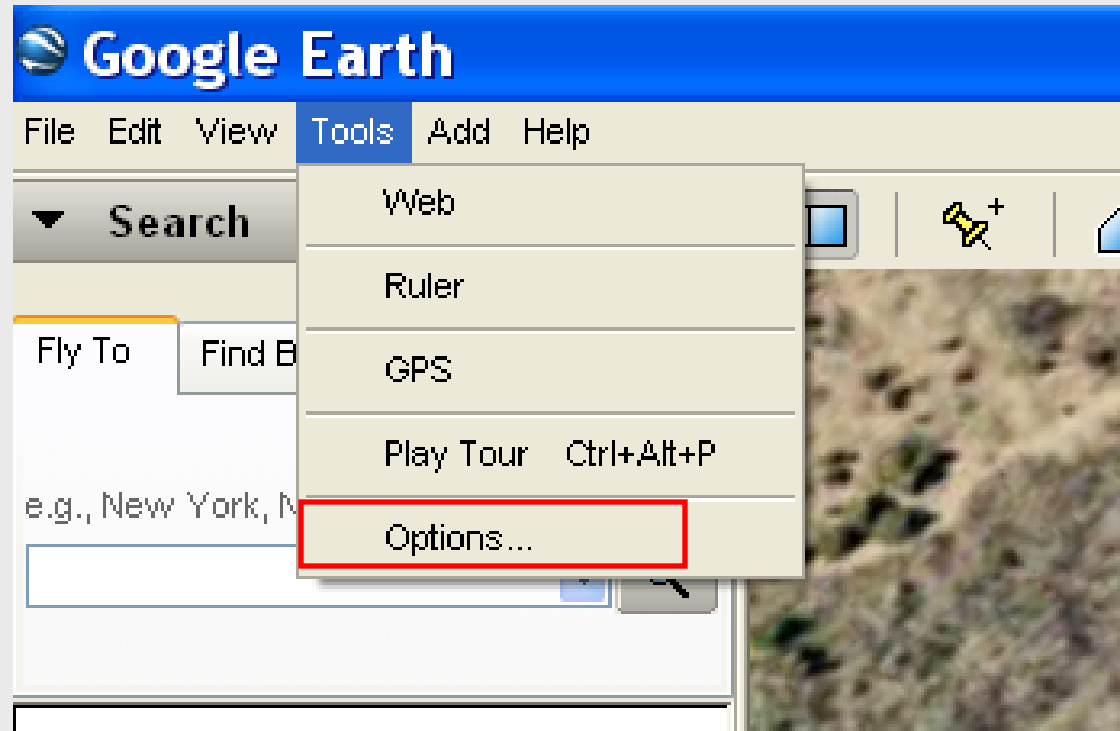
lat 41.606609° lon -71.616975° elev 382 ft

Eye alt 119.80 mi

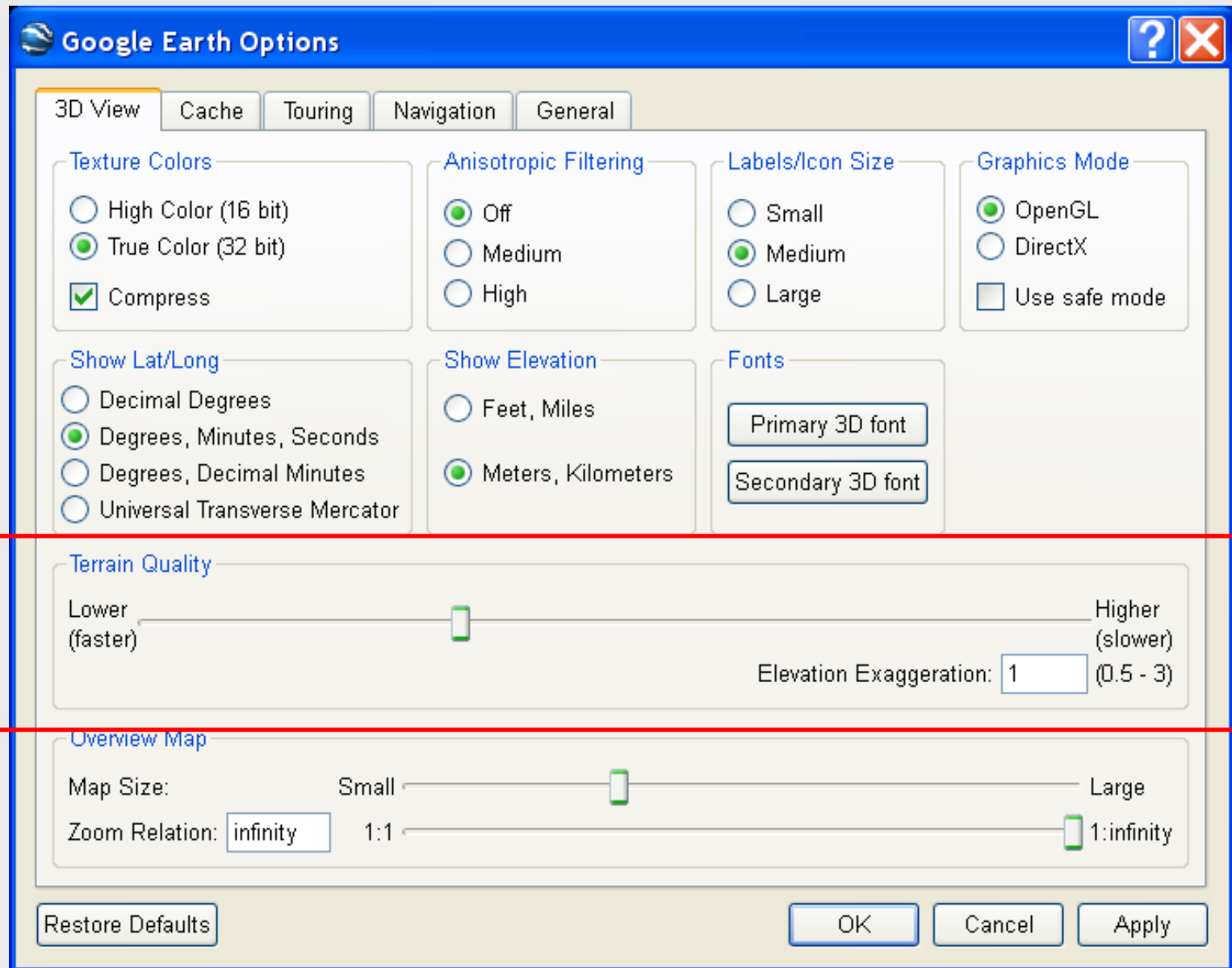
GPS functionality is now free!

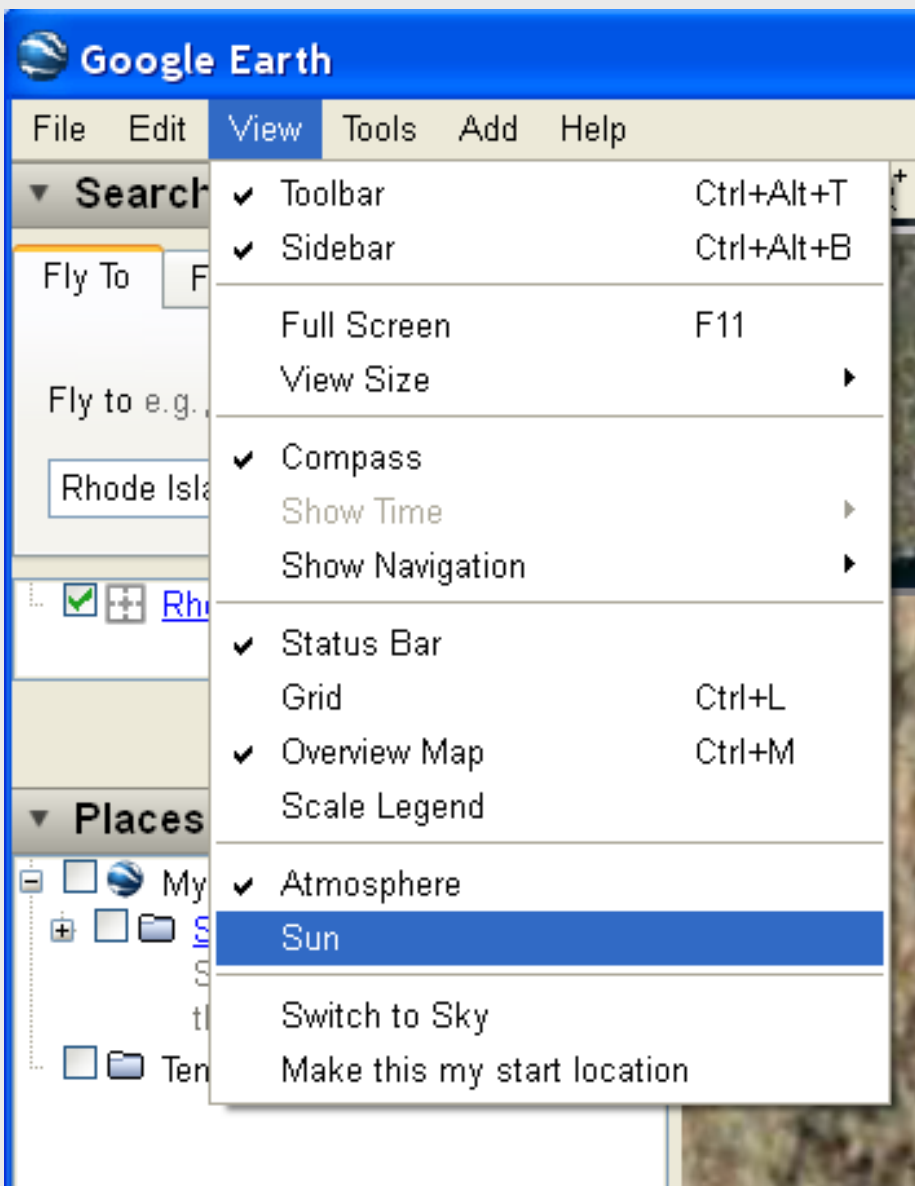


Google Earth Options



Elevation Exaggeration





Google Earth

File Edit View Tools Add Help

Search

Fly To

Fly to e.g.

Rhode Island

Rh

Places

My

+

tl

Ten

✓ Toolbar Ctrl+Alt+T

✓ Sidebar Ctrl+Alt+B

Full Screen F11

View Size ▶

✓ Compass

Show Time ▶

Show Navigation ▶

✓ Status Bar

Grid Ctrl+L

✓ Overview Map Ctrl+M

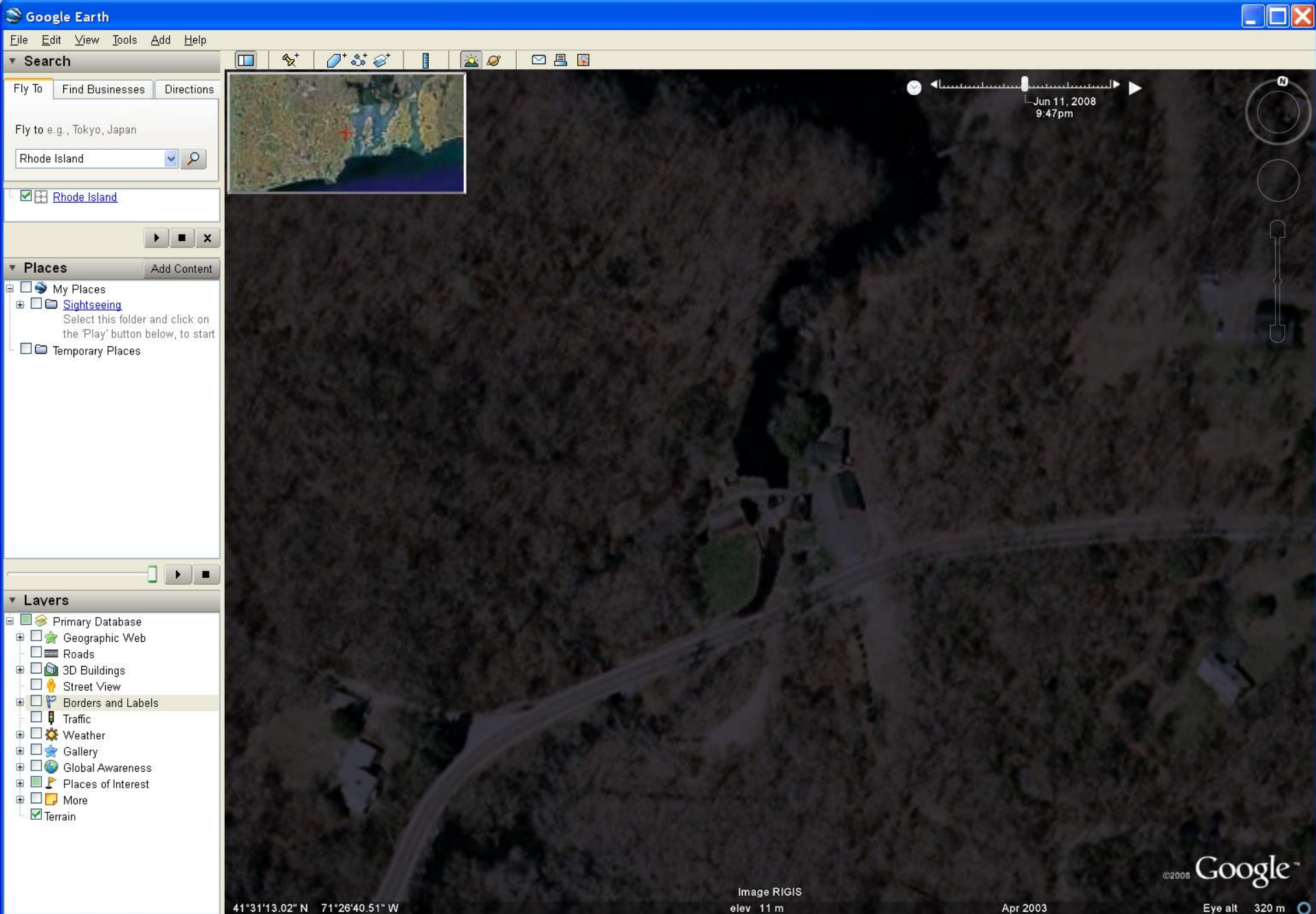
Scale Legend

✓ Atmosphere

Sun

Switch to Sky

Make this my start location



Google Earth



File Edit View Tools Add Help

Search

Fly To Find Businesses Directions

Fly to e.g., Tokyo, Japan

Rhode Island

☒ [Rhode Island](#)

Places

My Places
Sightseeing
Temporary Places

Layers

Primary Database
Geographic Web
Roads
3D Buildings
Street View
Borders and Labels
Traffic
Weather
Gallery
Global Awareness
Places of Interest
More
Terrain



Jun 11, 2008
9:47 pm



41°31'13.02" N 71°26'40.51" W

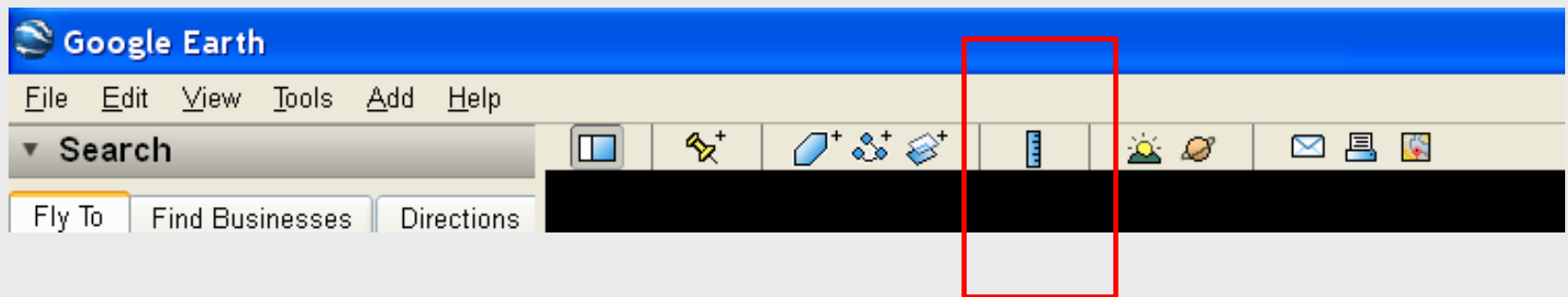
Image RIGIS
elev 11 m

Apr 2003

Eye alt 320 m

©2008 Google™

Measure Tool



Search

Fly To Find Businesses Directions

Fly to e.g., New York, NY

Places

- My Places
- MAVA GIS Database Draft 5
This is a test implementation of an Enterprise Geographic Information System being displayed using Google Earth.
 - park invasive species 2005 MAVA
 - Martin Van Buren Map Header
 - Lindenwald House at MAVA
 - Created with Google SketchUp 6.0.515
 - color infrared mosaic 2001 MAVA.img
Source Image:
E:/parkservice/mava/mava2001/cir/color_infrared_mosaic_2001_
 - panchromatic mosaic 2004 MAVA.img
Source Image:
E:/parkservice/mava/mava2004/pan/panchromatic_mosaic_2004_
 - MAVA USGS true color mosaic 200404.tif
Source Image:
D:/parkservice/mava/gis_data/process_area/seamless2/true_col
 - DRG USGS NAD83 MAVA.img
Source Image:
E:/parkservice/mava/2008_USGS_Web_Acquire/seamless_drg/C
 - hillshade ned MAVA.img
Source Image:
E:/parkservice/mava/2008_USGS_Web_Acquire/seamless2/ned
 - park boundary 2003 MAVA 20080306
Exported from park_boundary_2003_MAVA on 3/6/2008
 - park proposed boundary MAVA
Exported from park_proposed_boundary_MAVA on 4/29/2008
 - census blocks MAVA
Exported from census_blocks_MAVA on 3/5/2008
 - park water lines 2003 MAVA
Exported from park_water_lines_2003_MAVA on 3/4/2008
 - park trees 2003 MAVA
Exported from park_trees_2003_MAVA on 3/3/2008
 - park utilities 2003 MAVA
Exported from park_utilities_2003_MAVA on 3/3/2008
 - park water points 2003 MAVA
Exported from park_water_points_2003_MAVA on 3/3/2008
 - wetlands freshwater NY MAVA
Exported from wetlands_freshwater_NY_MAVA on 3/5/2008
 - municipal boundaries NY MAVA

Layers

Martin Van Buren
National Historic Site, New York

National Park Service
U.S. Department of the Interior

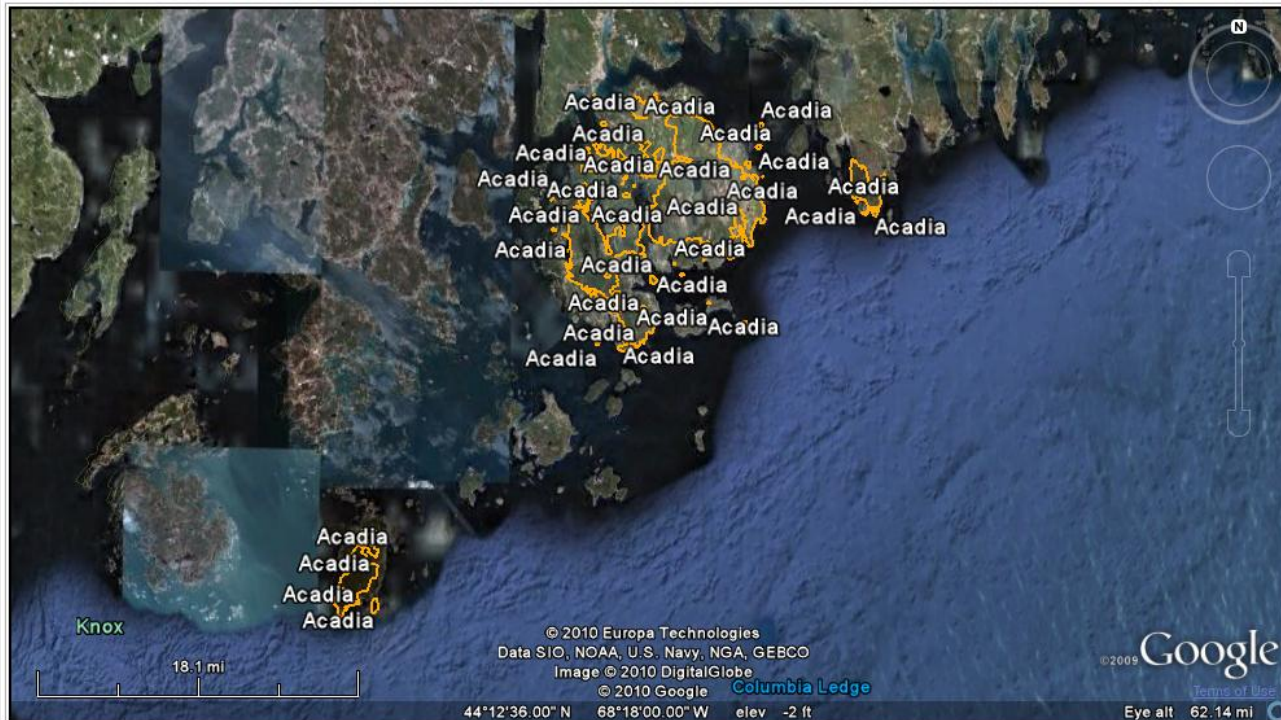


42°22'08.13" N 73°42'18.78" W

© 2008 Tele Atlas
Image © 2008 TerraMetrics

elev 229 ft

Eye alt 2252 ft



These are the National Parks in the Northeast Region whose names start with the letter A:

Park Locator and Geospatial Data Viewer

In the above tab panel please select the first letter of the park name of interest and then click on the park name.

Regional Datalayers.

Toggle Layer: ☒ Park Boundaries

Toggle Layer: ☐ National Landcover Data - 2001

Toggle Layer: ☐ [Legend For NLCD 2001](#)

Toggle The Sun: ☐ Click checkbox to turn on the sun.

* Denotes not available at this time.

File Edit View Selection Tools Window Help



3D Analyst ▾

Layer: i4.tif <sara-a-brk>



Fog and Haze ▾



Fog



Haze

Layer: i4.tif

Scene layers

☒ <Backdrop>☒ i4.tif☒ i3.tif☒ h6.tif☒ h5.tif☒ h4.tif☒ h3.tif☒ h2.tif☒ g8.tif☒ g7.tif☒ g6.tif☒ g5.tif☒ g4.tif☒ g3.tif☒ g2.tif☒ f8.tif☒ f7.tif☒ f6.tif☒ f5.tif☒ f4.tif☒ f3.tif☒ f2.tif☒ e8.tif☒ e7.tif☒ e6.tif☒ e5.tif

Display

Source



File Edit View Selection Tools Window Help



3D Analyst ▾

Layer: i4.tif <sara-a-brk> ▾



Fog and Haze ▾

☒ Fog☐ Haze

Layer: i4.tif

Scene layers

- ☒ <Backdrop>
- + ☒ i4.tif
- + ☒ i3.tif
- + ☒ h6.tif
- + ☒ h5.tif
- + ☒ h4.tif
- + ☒ h3.tif
- + ☒ h2.tif
- + ☒ g8.tif
- + ☒ g7.tif
- + ☒ g6.tif
- + ☒ g5.tif
- + ☒ g4.tif
- + ☒ g3.tif
- + ☒ g2.tif
- + ☒ f8.tif
- + ☒ f7.tif
- + ☒ f6.tif
- + ☒ f5.tif
- + ☒ f4.tif
- + ☒ f3.tif
- + ☒ f2.tif
- + ☒ e8.tif
- + ☒ e7.tif
- + ☒ e6.tif
- + ☒ e5.tif

Display Source

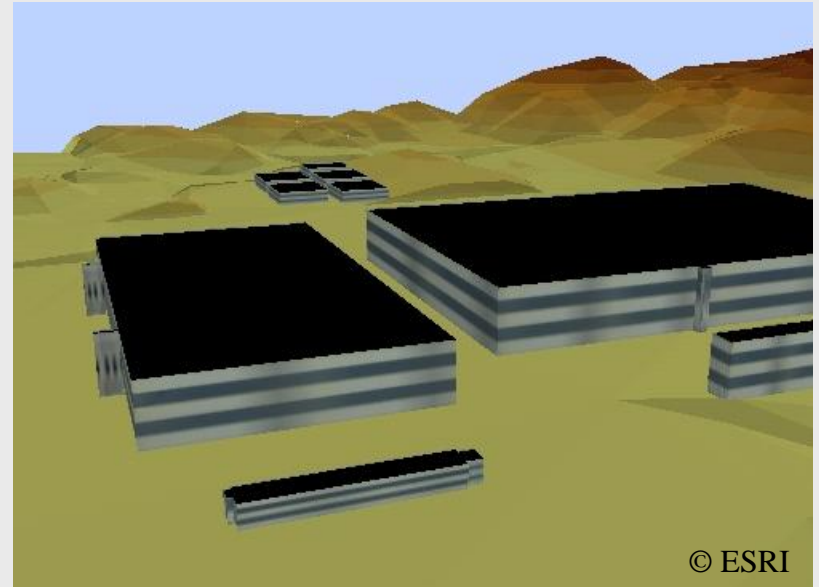
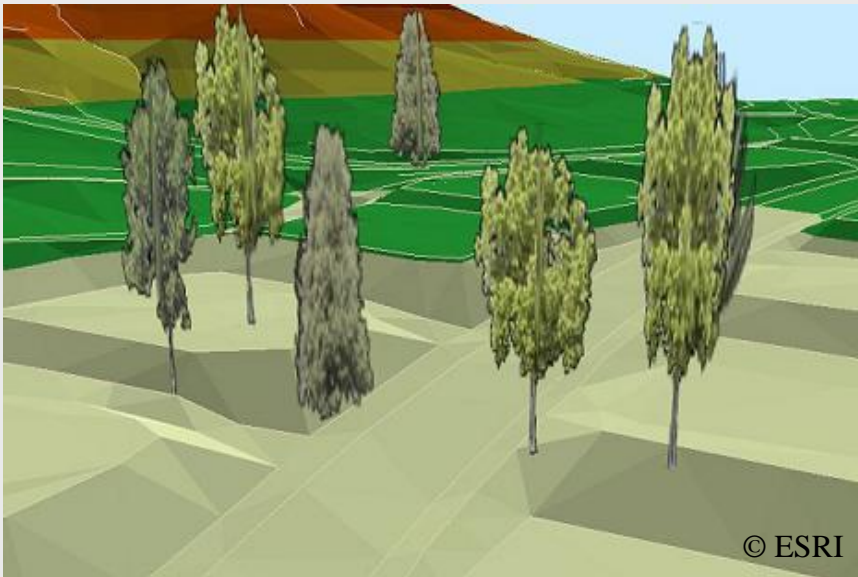


Other 3D Visualization

<http://arconline.esri.com/ArcObjectsOnline/>

ESRI Developer Sample

- 3D Buildings
- Plant a tree





Norbert Kern – Germany – June 2001

Talks Eric Sanderson pictures New York -- before the City

THE MANNAHATTA PROJECT

HOME ABOUT EXPLORE SCIENCE DOWNLOAD DISCUSS NEWS

The Mannahatta Project
Have you ever wondered what New York was like before it was a city?
[more about the project](#)

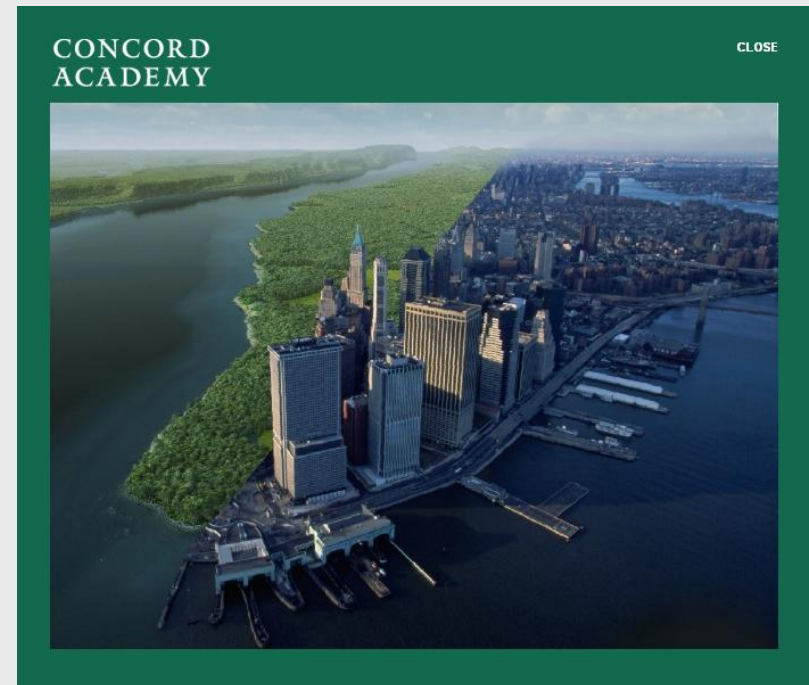
EXPLORE
See the 1609 Mannahatta map and help us continue the project.

DOWNLOAD
Resources for teachers, students and researchers.

WATCH
The Mannahatta Project Lecture with Dr. Eric Sanderson

NEWS
Before the winter hibernation...
Come hear about the Mannahatta Project 11/14, 11/16 and 11/17 [more](#)
Read the book: Mannahatta - Natural History of NYC
Curious to know more? Read the New York Times bestseller [about](#)
Upcoming Mannahatta events in and around New York City
Come hear more about Mannahatta during the Quadricentennial year [more](#)

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Mark Boyer

[Wildlife Conservation Society](#) mboyer@wcs.org

Example View

 NATIONALGEOGRAPHIC.COM



Computer-generated image by Makley Boyer



rhode island

Search

Search for: ☒ Models ☐ Collections

3D Warehouse Results

Results 1 - 12 of about 29 for **rhode island** (0.0 seconds)**Bonniol Class Starcruiser (USS Cranston)**by [Phat Cat \(The Amazing Baron\)](#)

★★★★★ (3 ratings)

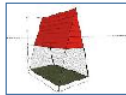
My Friend Chris Bonniol was...

[Download to Google SketchUp 6](#)**Improved Google Saltbox House**by [J-Wall](#)

This four-step drawing shows...

[Download to Google SketchUp 6](#)**Lockheed C-130E 143rd ALW Rhode Island Air National Guard**by [Goose](#)

Plain C-130

[Download to Google SketchUp 6](#)**first draft chicken tractor**by [Jill](#)

first draft of chicken...

[Download to Google SketchUp 6](#)**Civil Air Patrol Cessna**by [Goose](#)

Go Rhode Island Wing!!!

[Download to Google SketchUp 6](#)**Another Skyscraper (90th Model!!!!!!)**by [Phat Cat](#)

★★★★★ (4 ratings)

A skyscraper I will put in my...

[Download to Google SketchUp 6](#)**RHODE ISLAND flag**by [gunny](#)

★★★★★ (1 rating)

i made this because phat cat...

[Download to Google SketchUp 6](#)**Fraidy World Financial Center**by [Phat Cat](#)

★★★★★ (8 ratings)

My 80th Model!!!! 20 more...

[Download to Google SketchUp 6](#)**Flag Of The State Of Rhode Island**by [Phat Cat](#)

★★★★★ (1 rating)

The flag of the smallest...

[Download to Google SketchUp 6](#)**Block Island Southeast Lighthouse**by [Roland Duhaime](#)

★★★★★ (1 rating)

Southeast Lighthouse on Block...

[View in Google Earth](#)**Flag**by [Google Guy](#)

★★★★★ (6 ratings)

[Download to Google SketchUp 6](#)**Save the Bay**by [VCCollective](#)

This is the visitor center...

[View in Google Earth](#)Result Page: [1](#) [2](#) [3](#) [Next](#)Build 3D models using [Google SketchUp](#). View 3D models using [Google Earth](#) and the [3D Warehouse Network Link](#).[Privacy Policy](#) - [Terms of Service](#) - [Google Home](#) - [Help](#)

©2007 Google

Google 3D warehouse Models Search Advanced Search

Trimble > Trimble MS990

Trimble MS990

uploaded by: [rjld](#) on November 16, 2009



Image 3D View

Views: 146 (5 in 7 days)
Downloads: 40 (4 in 7 days)

Download Model

☆☆☆☆☆ Rate this model
No ratings

Trimble MS900 rugged GPS antenna for GCS900 machine control systems.

Contact Link Include Report a policy violation

Similarly shaped models

[See other models shaped like this](#)



Collections containing this model



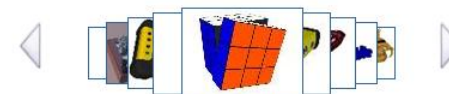
[Trimble](#)



[Electronics Electronic Electrical Elec...](#)

Related items

More models by [rjld](#):



[Rubik's Cube](#)

Other models you might like:



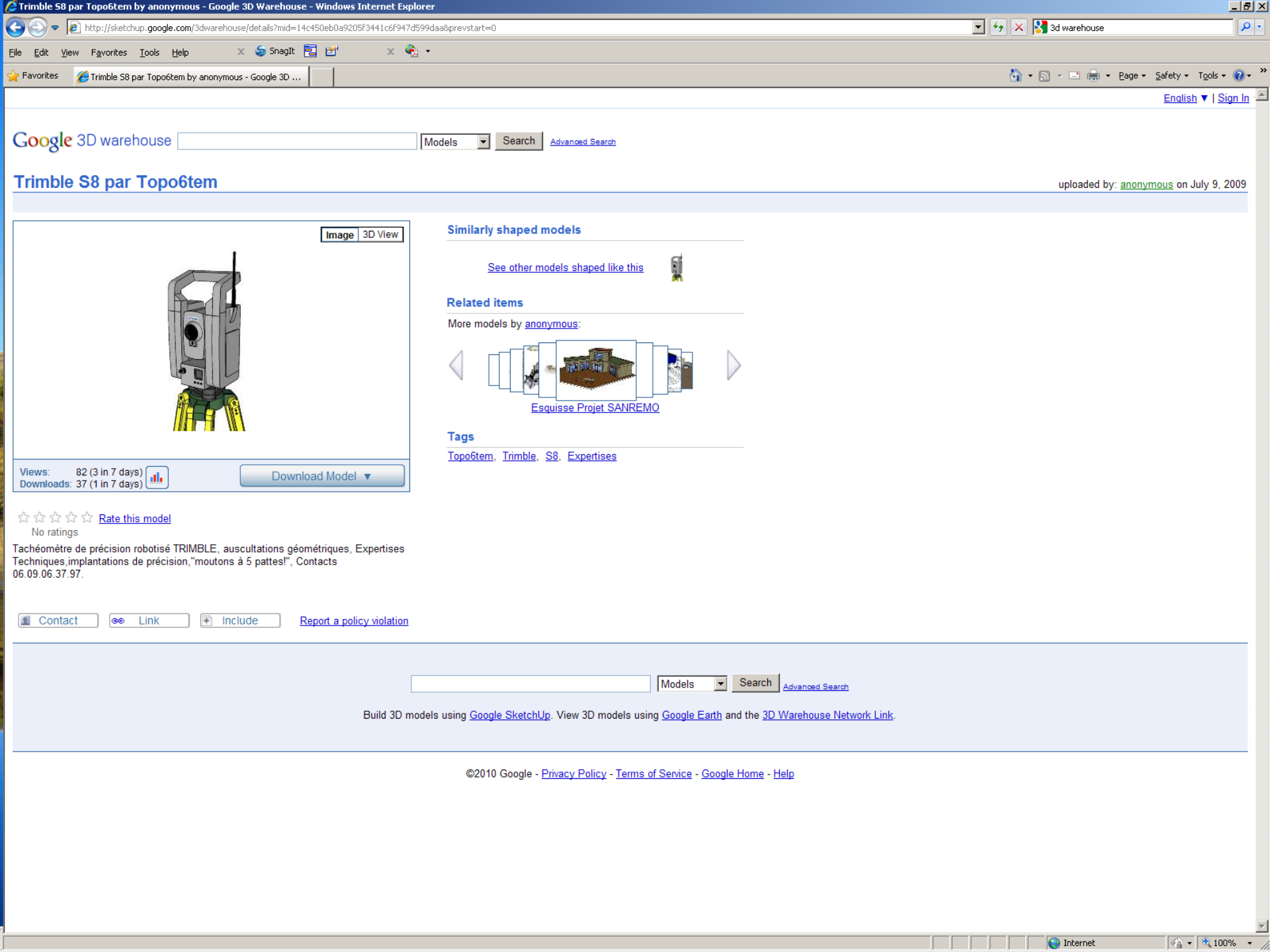
[3D Trimble Logo](#)

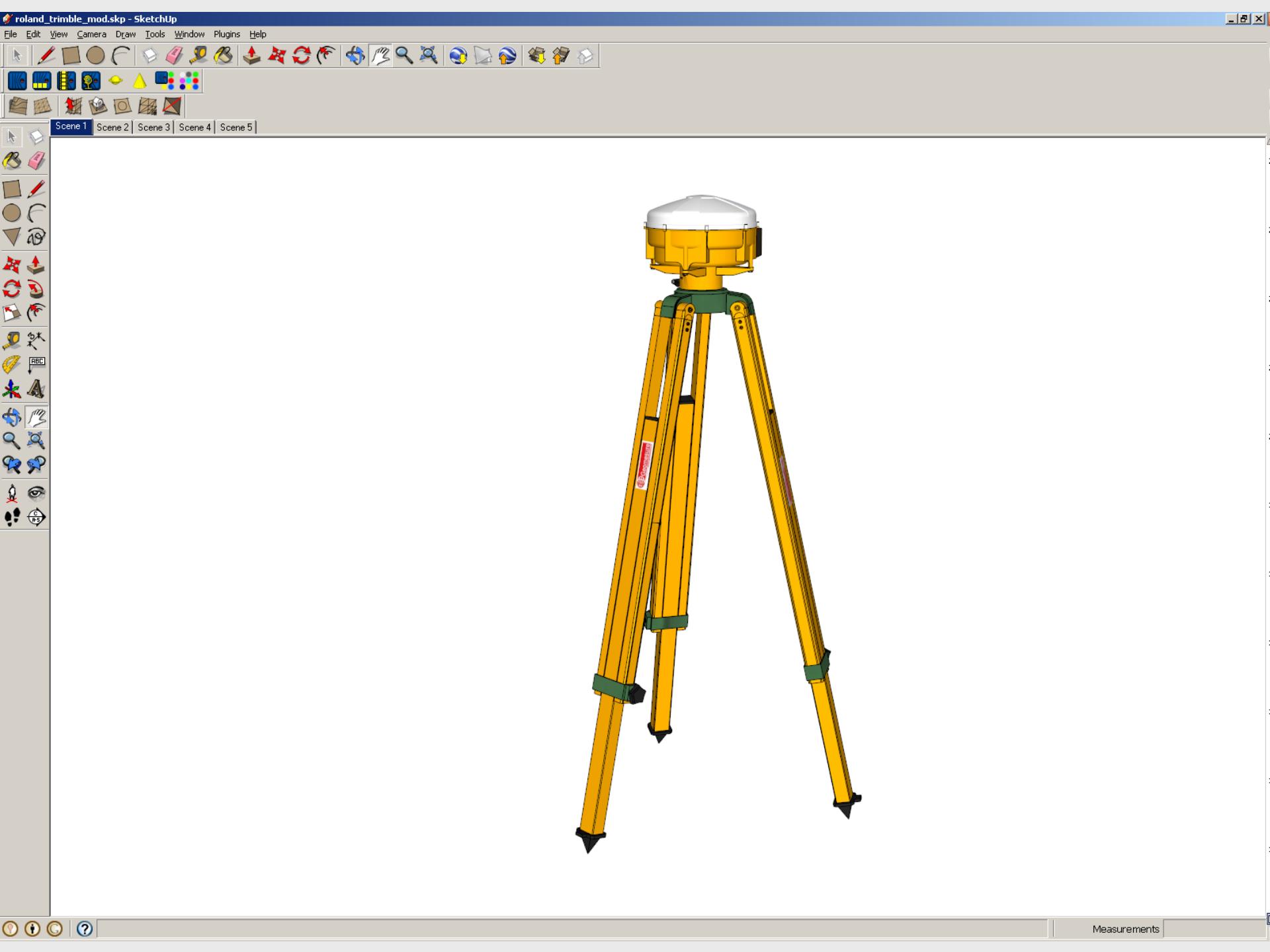
Contributors

[rjld](#)

Models Search Advanced Search

Build 3D models using [Google SketchUp](#). View 3D models using [Google Earth](#) and the [3D Warehouse Network Link](#).





Blender



model • shade • animate • render • composite • interactive 3d

Blender is the free open source 3D content creation suite, available for all major operating systems under the GNU General Public License.



 [Download Now](#)

News Headlines

from BlenderNation

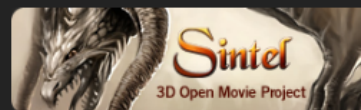
- **Beorn Leonard joins Durian**
March 1, 2010
- **Blender UserDay 2010 in Graz, Austria**
March 1, 2010
- **Old Postcard**
March 1, 2010
- **'Freddie'**
February 28, 2010
- **Croatian Users & TOSMI presenting Bassam Kurdali**
February 27, 2010
- **The Process Diary – Poly-Modeling a Human Figure (Part 4)**
February 26, 2010
- **Interview: Jason van Gumster**
February 26, 2010
- **Blender added to Ubuntu's 'Featured Apps'**
February 25, 2010
- **RoboThespian**
February 25, 2010
- **More...**

Announcements

Blender Foundation Official Updates

- **Blender 2.5 Alpha 1 released**
February 19, 2010
Eagerly awaiting the first real beta release, we've published another alpha test build to ensure bug reporters have a good reference.
- **New training DVD: Open source painting course**
February 18, 2010
David Revoy, art director of project Durian, will publish his digital painting course "Chaos and Evolutions" mid march.
- **Blender 2.5 Alpha 0 released**
November 24, 2009
The first of the 2.5 series is now available for test! It's mostly meant as a reference for reporting and feedback, but packed with new features too.
- **Blender Conference: videos**
November 19, 2009
You can now view recordings of the talks on the Balie website.
- **More...**

Blender 2.5 Alpha 1




Elephants Dream – Big Buck Bunny – YoFrankie!

[Wiki Documentation](#)

[Forums](#)

[Get Involved](#)

[Foundation / Institute](#)

 Internet bandwidth sponsor

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[Foundation](#)
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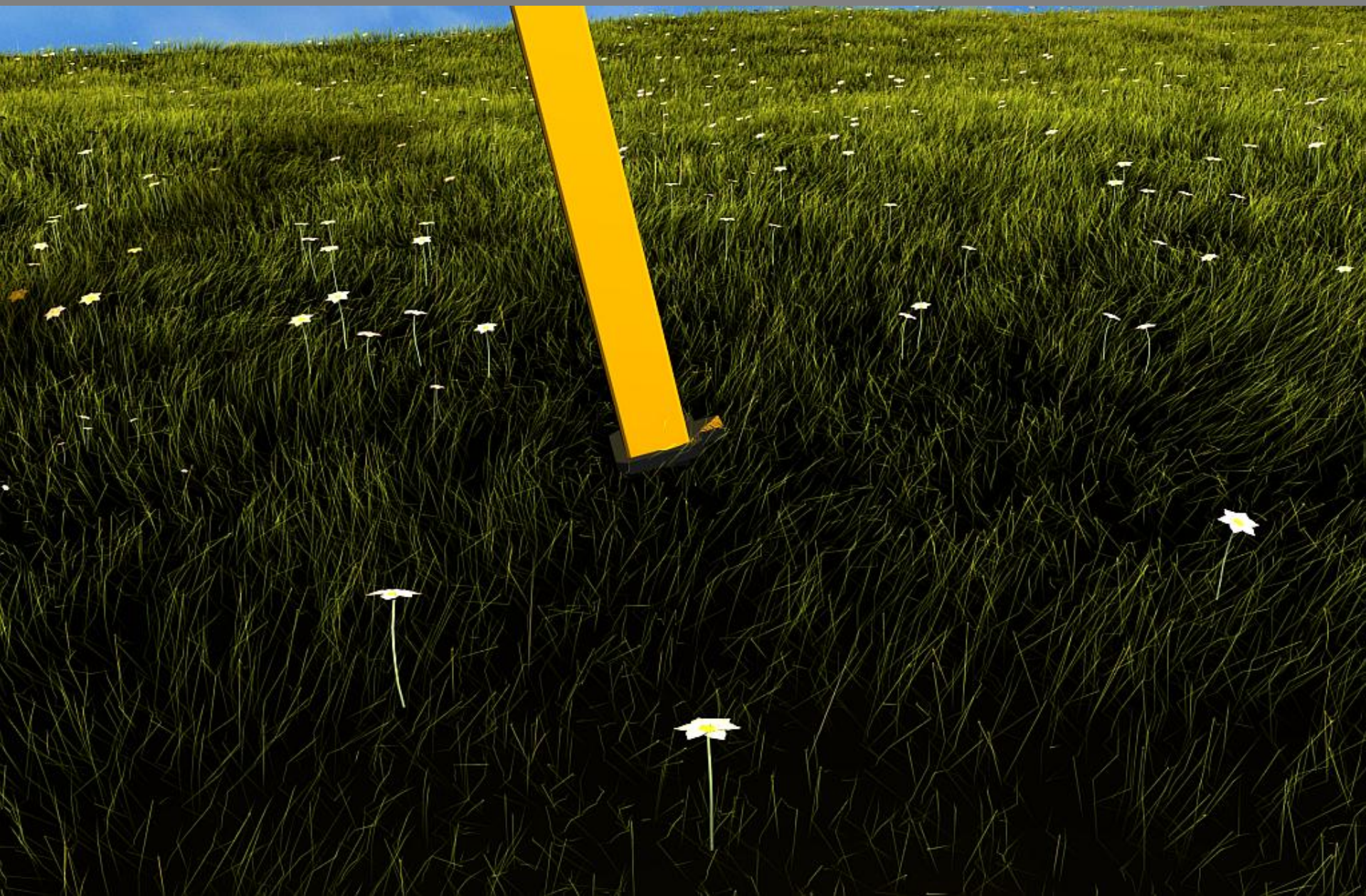
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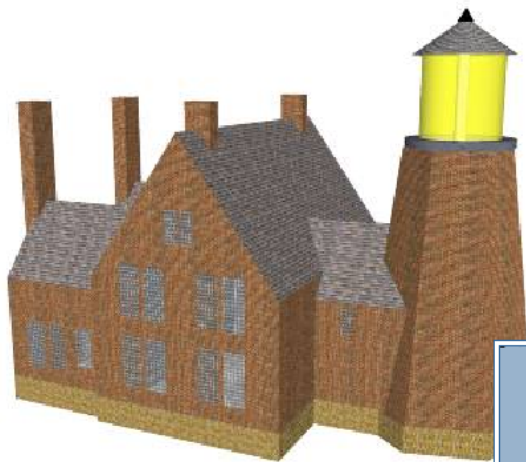


Block Island Southeast Lighthouse by [Roland Duhaime](#)

Uploaded on

Image

Map



TEQ™ - Terms of Use

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[View in Google Earth](#)

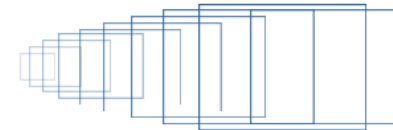
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Model complexity [What's this?](#)

Simple

Moderate

Complex

Tags

[Block Island](#), [Rhode Island](#), [Lighthouse](#), [Southeast](#), [Beacon](#)

Southeast Lighthouse on Block Island, Rhode Island

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Realistic Rendering

- Free software
 - Blender
 - Kerkythea

Main Menu

- [Home](#)
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Who's Online

We have 57 guests and 3 members online
Sergio

Dspace

tridem

Statistics

Members: 28696
News: 51
Web Links: 57
Visitors: 11556212



Home



Login Form

Username

Password

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Polls

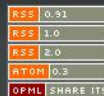
What is the feature that you are missing most from Kerkythea?

- ☐ Integration with modeler(s)
- ☐ Improved user interface
- ☐ Faster rendering
- ☐ More options for rendering
- ☐ Improved render quality
- ☐ Support and help
- ☐ Better site and forum

[Vote](#)

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Syndicate



Latest News

SketchUp Exporter Version 3.1 Released
Call for Exporter Developers
Announcing Thea Render
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Popular

New version - SU2KT 2.21 exporter
Kerkythea 2008 Echo Released
Kerkythea 2008 Echo (v2.0.5 update)
Do you want real skies.??
Jeroen van der Zijp Interview



Green Spring Presentation

Dave Frederick



Dave Frederick

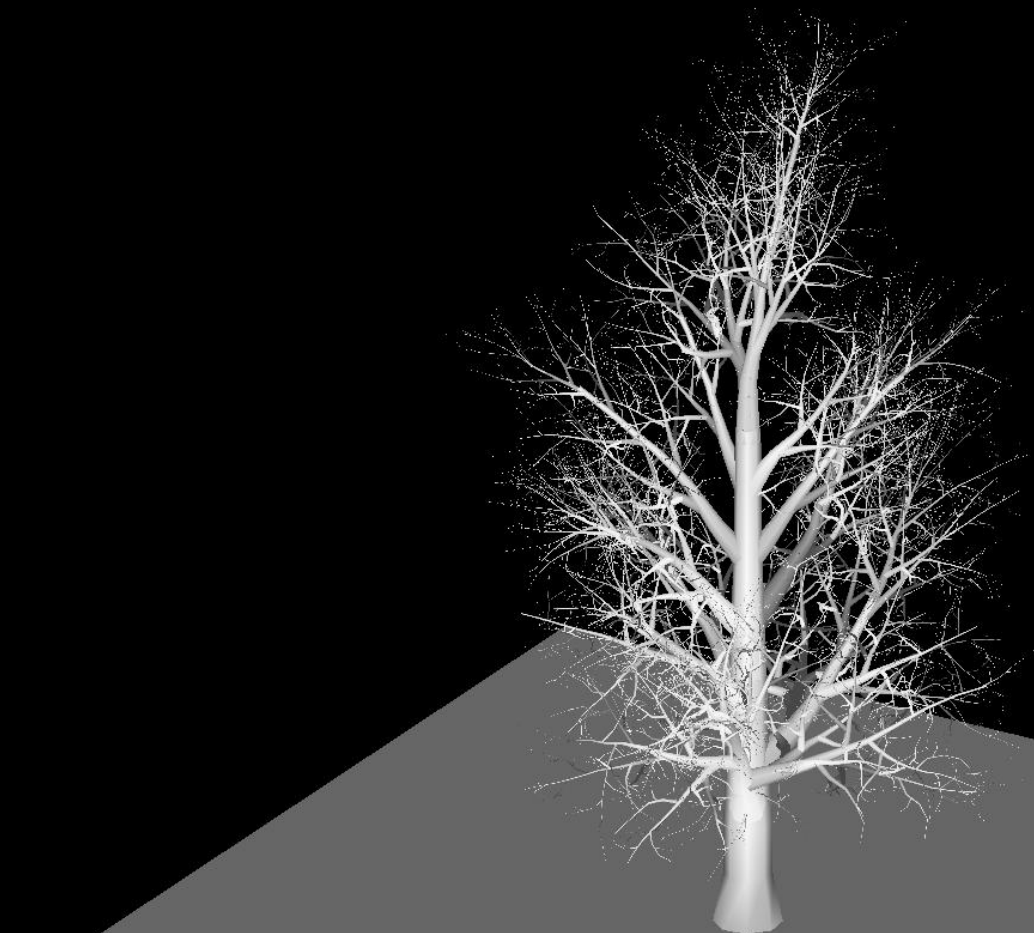


Dave Frederick

<http://www.tombstone3d.com/>







☒ Auto-update Update

General

Randomness

Seed - 80 +

LOD

LOD level - 1.00 +

Plant [232496/393088]

[illegible]

Search

Fly To Find Businesses Directions

e.g., Reservoir Rd. Clayville, NY

iversity of Rhode Island, Kingston

- ☒ University of Rhode Island
- ☐ University of Rhode Island
- ☐ Did you mean:

Places

- ☐ My Places
 - ☒ RI Map 1880
 - ☐ 1939 Aerial Photo of Ninigret Pond - Overlay Example
 - ☐ 1952 Aerial Photo of Ninigret Pond - Overlay Example
 - ☐ Coastal Institute Narragansett, RI
 - The Coastal Institute Building the URI Bay Campus
 - ☒ coastal_institute_kingston_v14b
 - Created with Google SketchUp 6.0.515
 - keanev_gvm
 - Created with Google SketchUp 6.0.515
 - Tour
 - Model
 - chaffee_hall_v2
 - Created with Google SketchUp 6.0.312

Layers

View: Core

- ☐ Primary Database
 - ☒ Terrain
 - ☒ Geographic Web
 - ☐ Featured Content
 - ☐ Global Awareness
 - ☐ roads
 - ☐ 3D Buildings
 - ☐ borders
 - ☒ Populated Places
 - ☐ Alternative Place Names
 - ☐ Dining
 - ☐ Lodging
 - ☐ Google Earth Community
 - ☐ Shopping and Services
 - ☐ Transportation
 - ☐ Geographic Features
 - ☐ Travel and Tourism
 - ☐ Parks and Recreation Area
 - ☐ Community Services



THIS PROJECT IS FUNDED BY A
**STATE PRESERVATION
GRANT**

ADMINISTERED BY THE
State of Rhode Island
Historical Preservation & Heritage Commission



Donald L. Carcieri
Governor



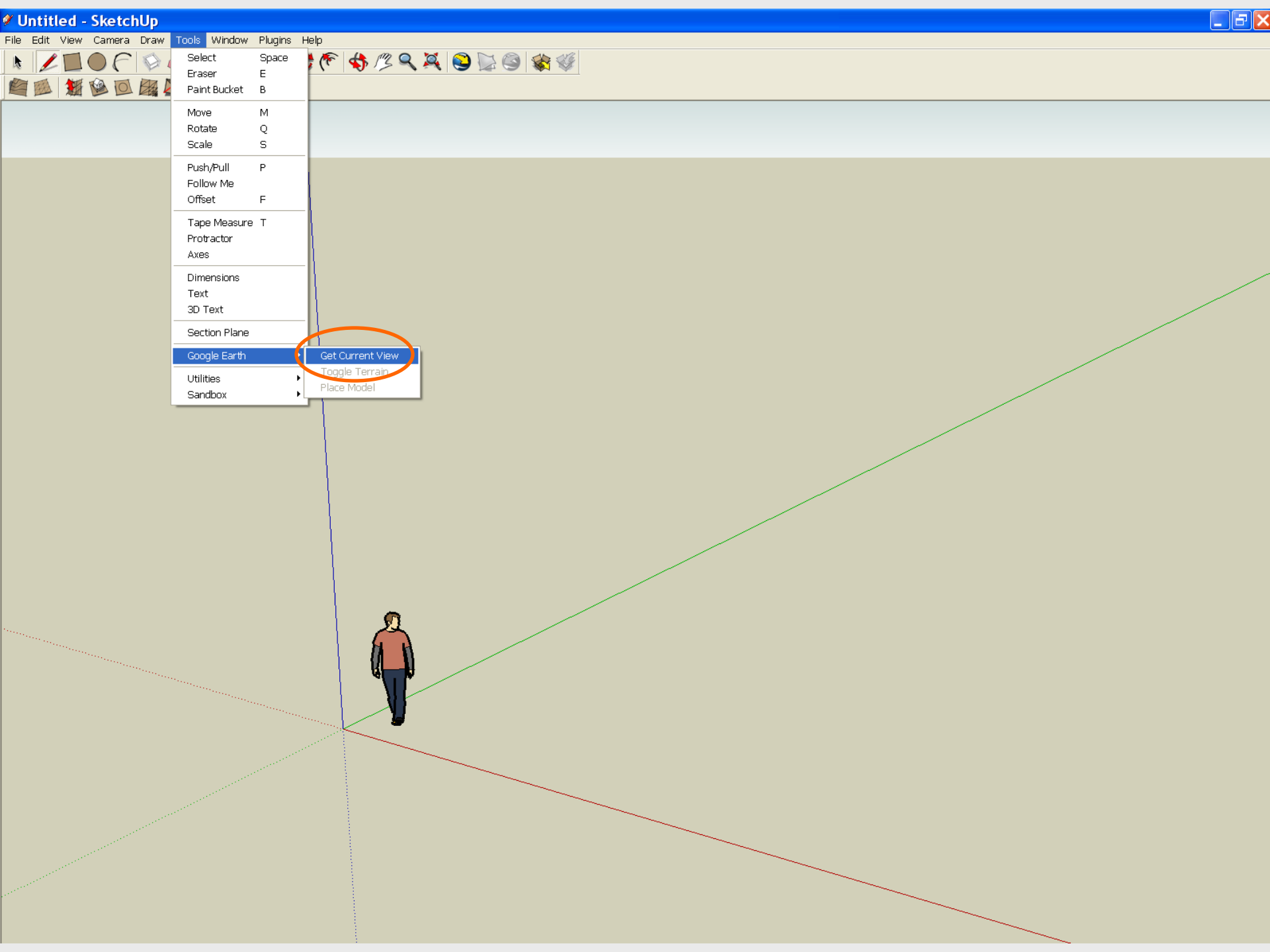
Frederick C. Williamson
Chairman

Preserving and restoring Rhode Island's historic sites



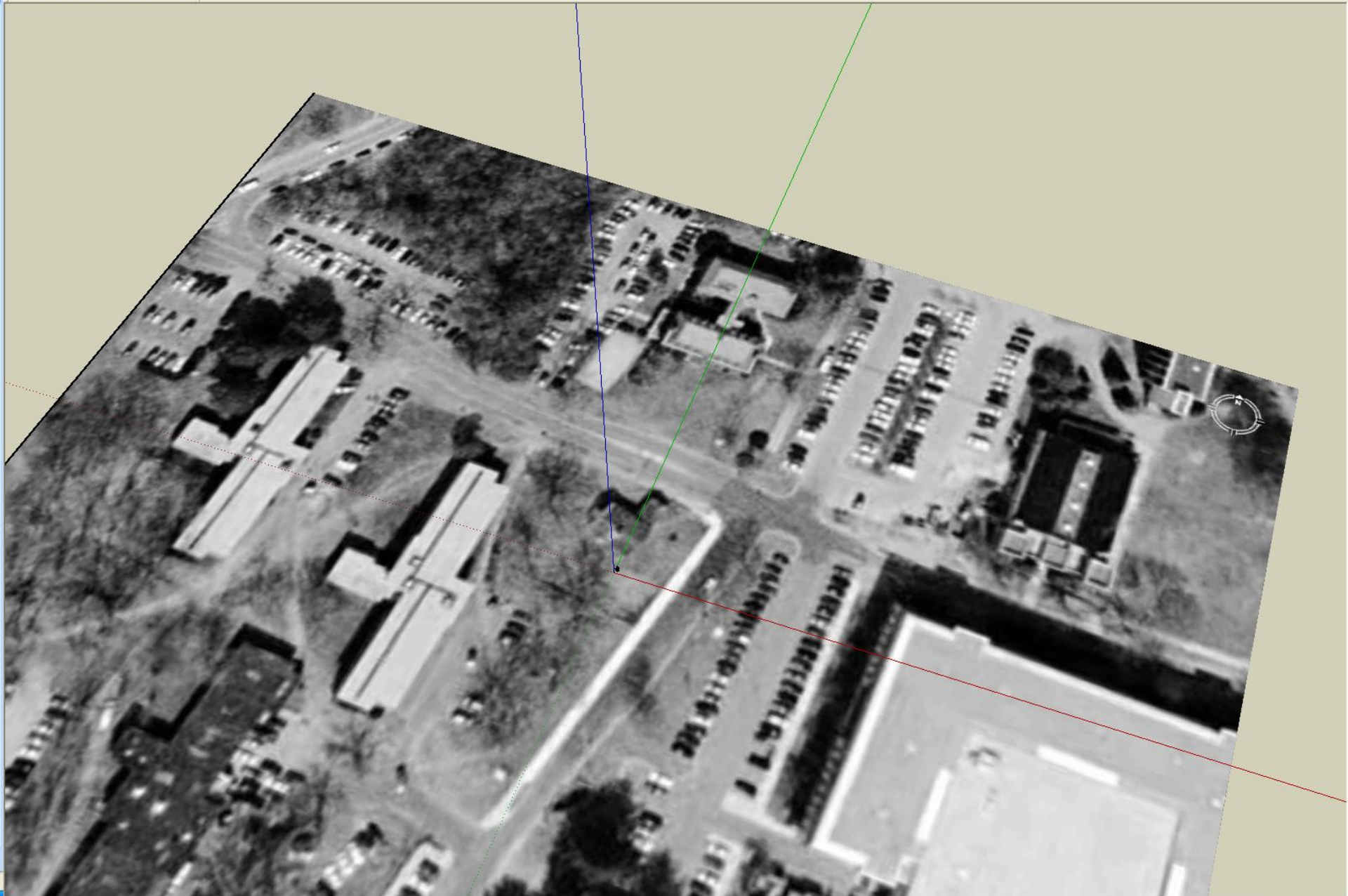




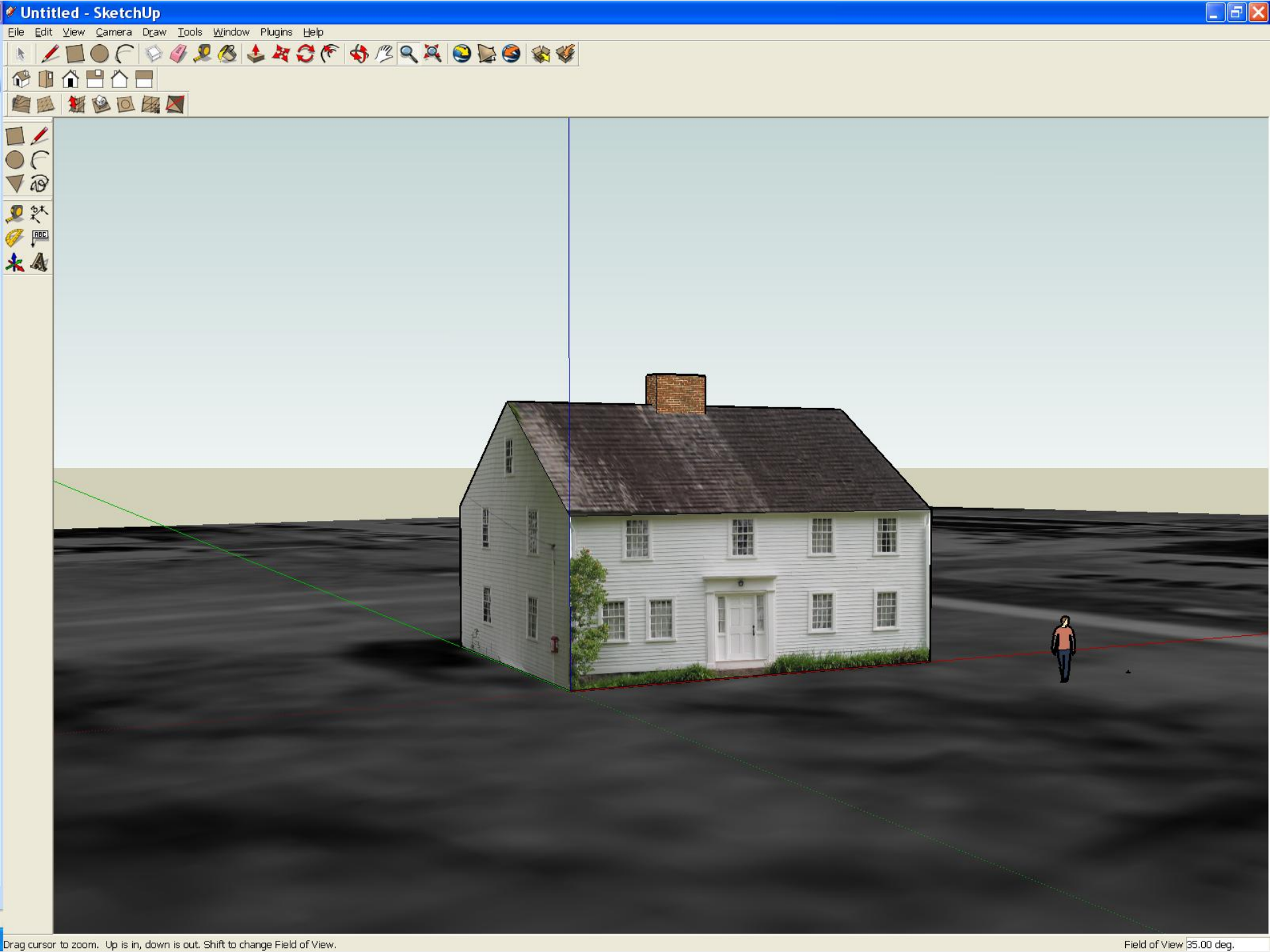


- Select Space
- Eraser E
- Paint Bucket B
- Move M
- Rotate Q
- Scale S
- Push/Pull P
- Follow Me
- Offset F
- Tape Measure T
- Protractor
- Axes
- Dimensions
- Text
- 3D Text
- Section Plane
- Google Earth
 - Get Current View
 - Toggle Terrain
 - Place Model
- Utilities
- Sandbox









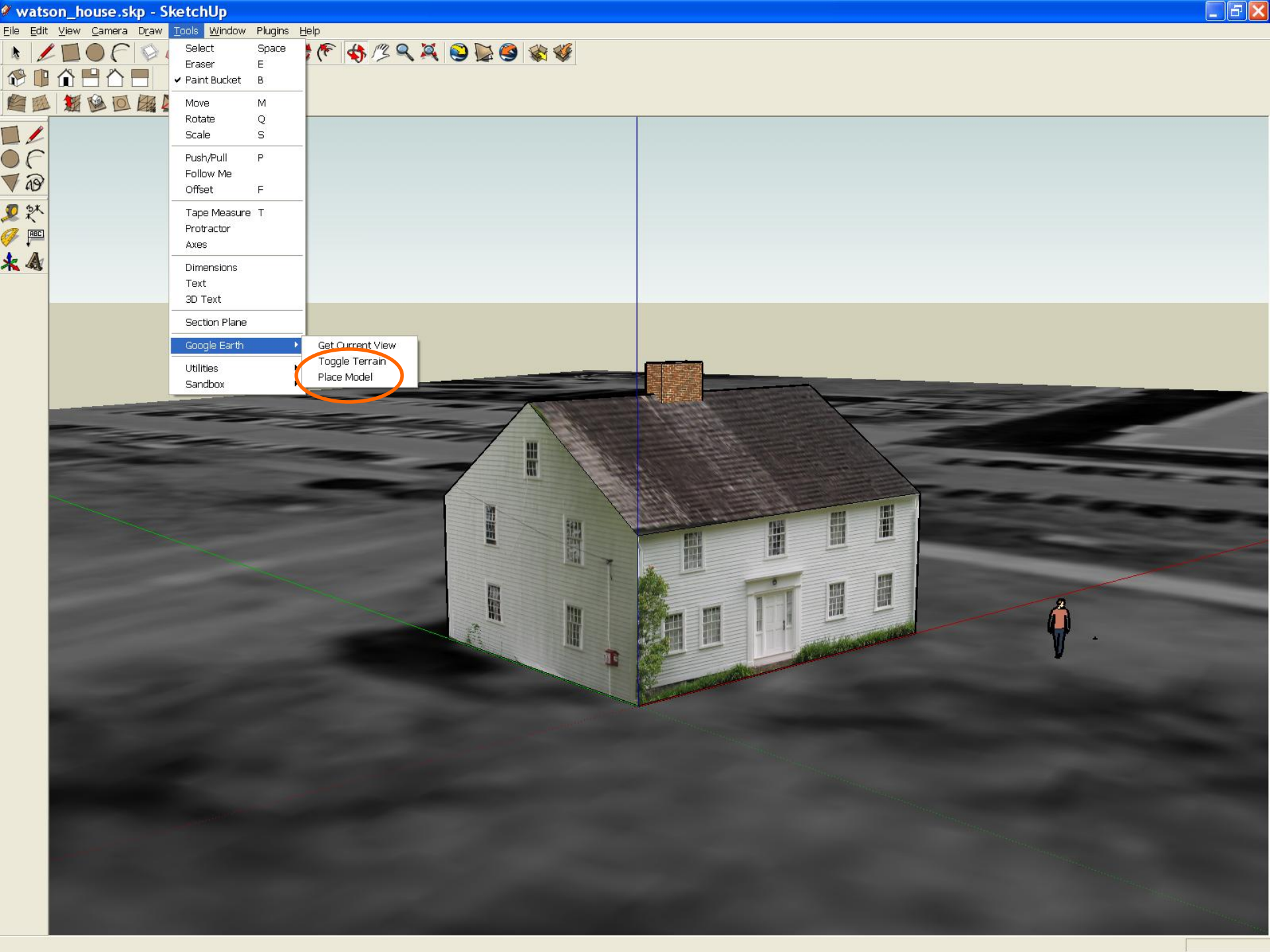
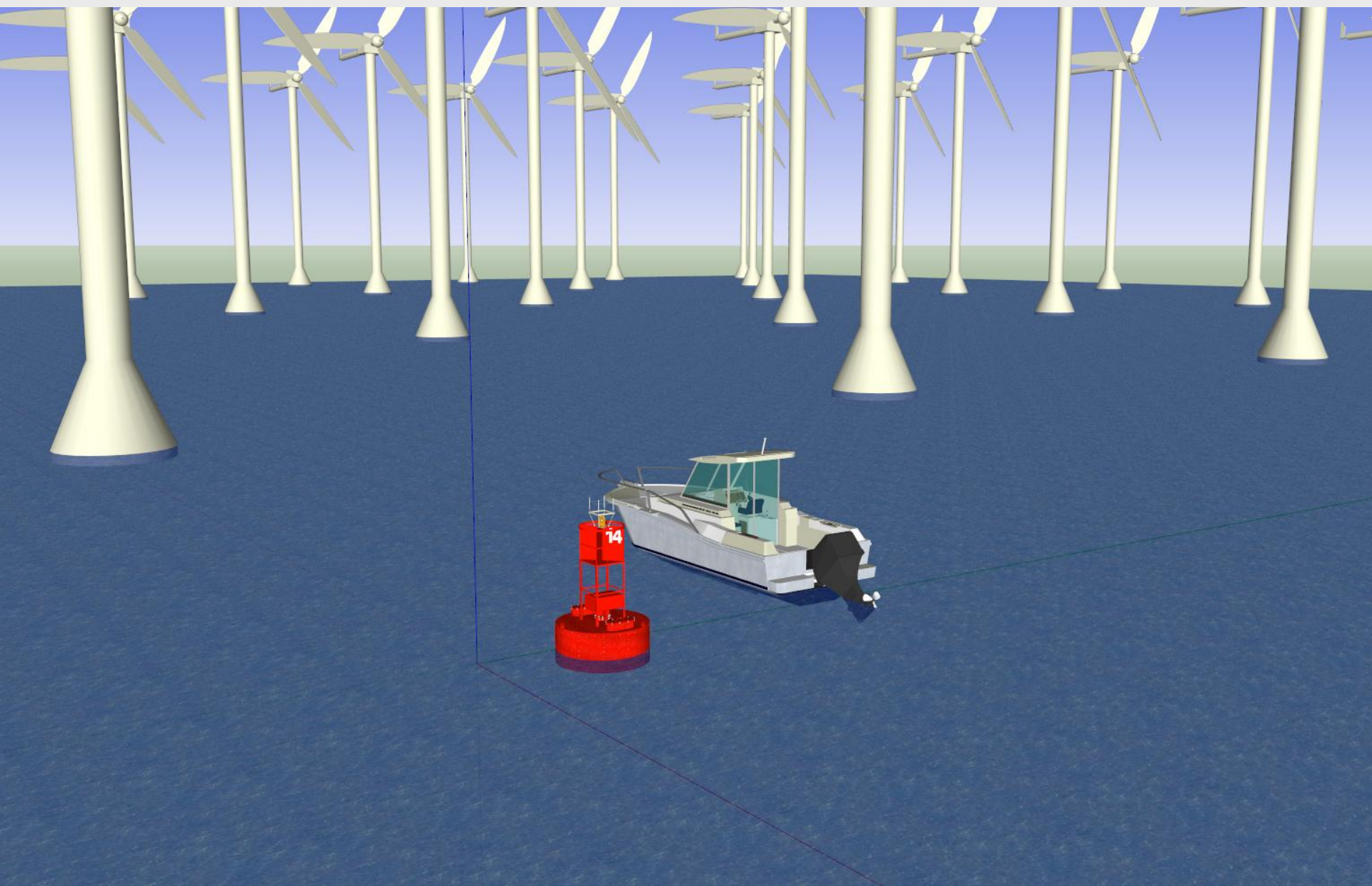




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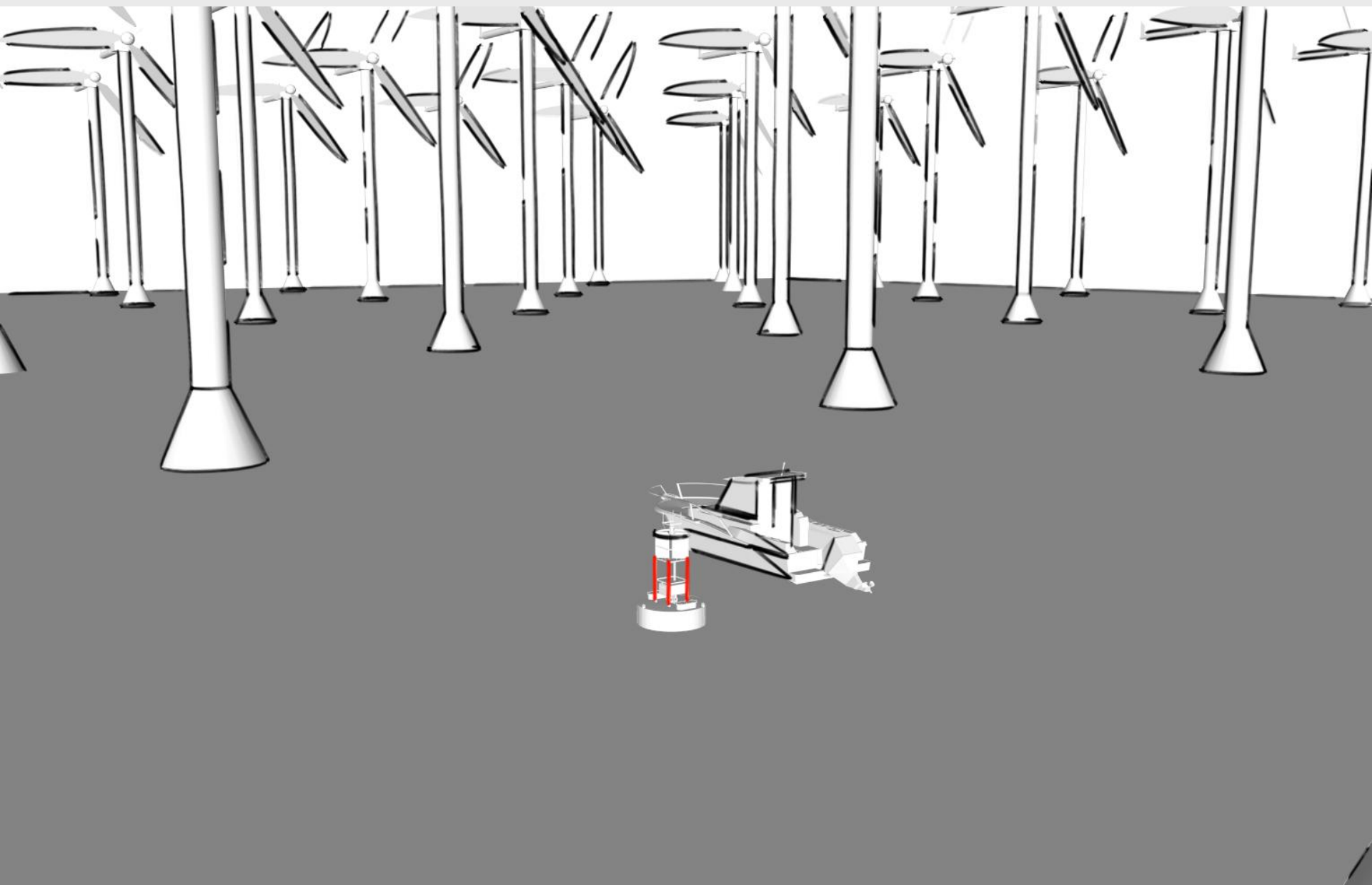




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lat 41.772497° lon -71.622702° elev 285 ft

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Eye alt 406 ft

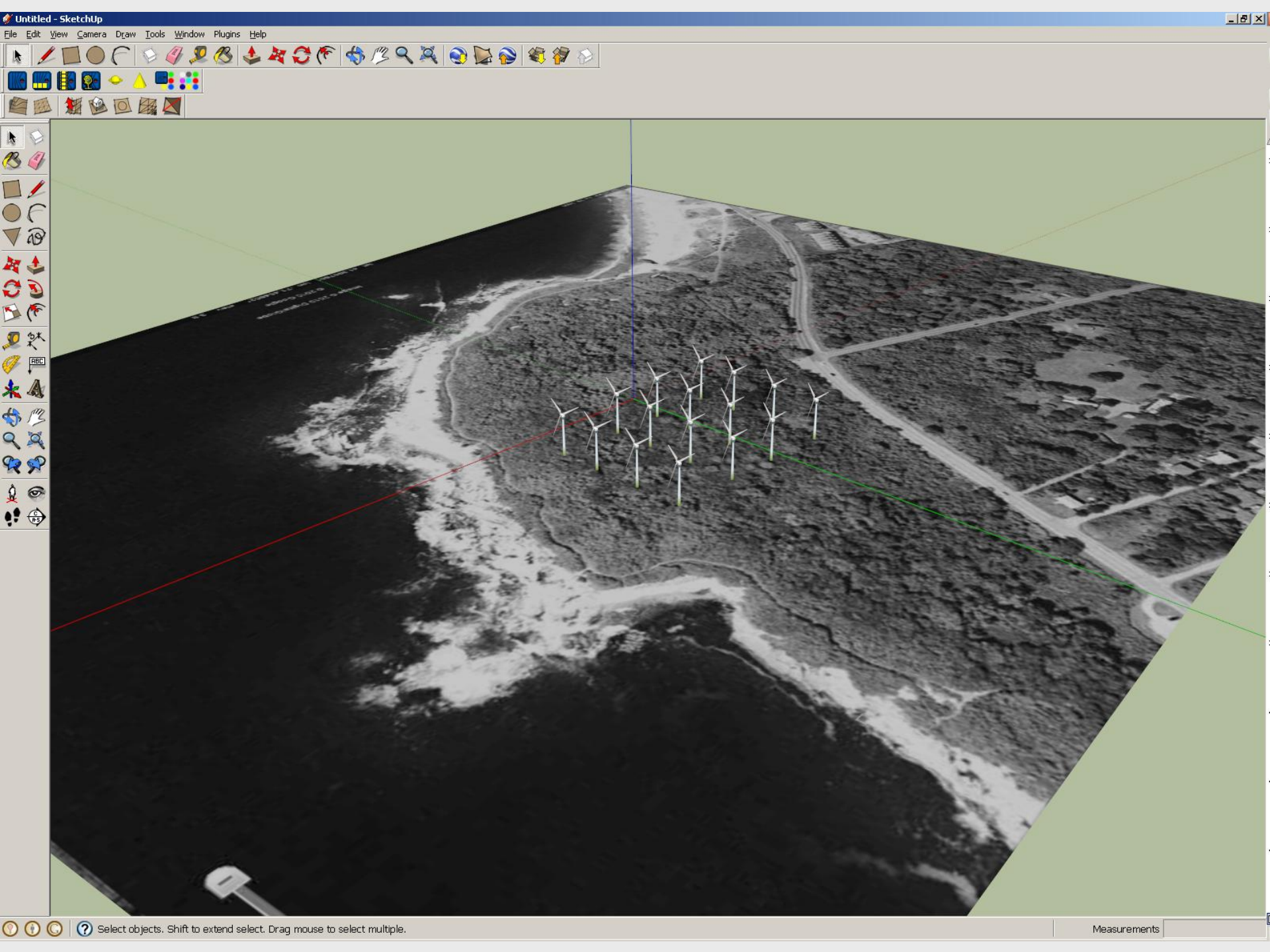




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lat 41.397317° lon -71.464281° elev 14 ft

Eye alt 244 ft

End Part 2